



8976 Wellington Road
Manassas, VA 20109

Sent via UPS # 1Z97VW250195477839

May 23, 2011

Ana T. Westernik
Environmental Specialist II
Virginia Department of Environmental Quality
13901 Crown Court
Woodbridge, VA 22193-1453



Reference: VPDES Permit No. VA0085901 Renewal Application

Dear Ms. Westernik:

Enclosed are the original and one electronic copy of IBM Corporation's permit application (Forms 1, 2C, and Addendum) for the renewal of VPDES Permit No. VA0085901. The permit application has been signed by Ms. Edan T. Dionne, IBM Director for Corporate Environmental Affairs. Ms. Dionne is responsible for IBM's corporate environmental planning and policies and meets the permit application signatory requirements set forth in 9 VAC 25-31-110. Also enclosed is the original signed Public Notice Authorization Form

If you have any questions or need additional information, please contact Dean Chartrand at (703) 257-2583.

Sincerely yours,

Mitchell E. Meyers
Manager, Environmental Remediation
Corporate Environmental Affairs

Enclosures

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM
1
GENERAL



U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER		T/A	C
S	F	See Form 1 Notes	D
1	2	13	14 15

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS
If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS
INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X"			SPECIFIC QUESTIONS	Mark "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP International Business Machines Corporation

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)
2 Chartrand, Dean - Program Manager

B. PHONE (area code & no.)
(703) 257-2583

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX
3 8976 Wellington Road

B. CITY OR TOWN
4 Manassas

C. STATE
VA

D. ZIP CODE
20109

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER
5 See Form 1 Notes

B. COUNTY NAME
NA

C. CITY OR TOWN
6 Manassas

D. STATE
VA

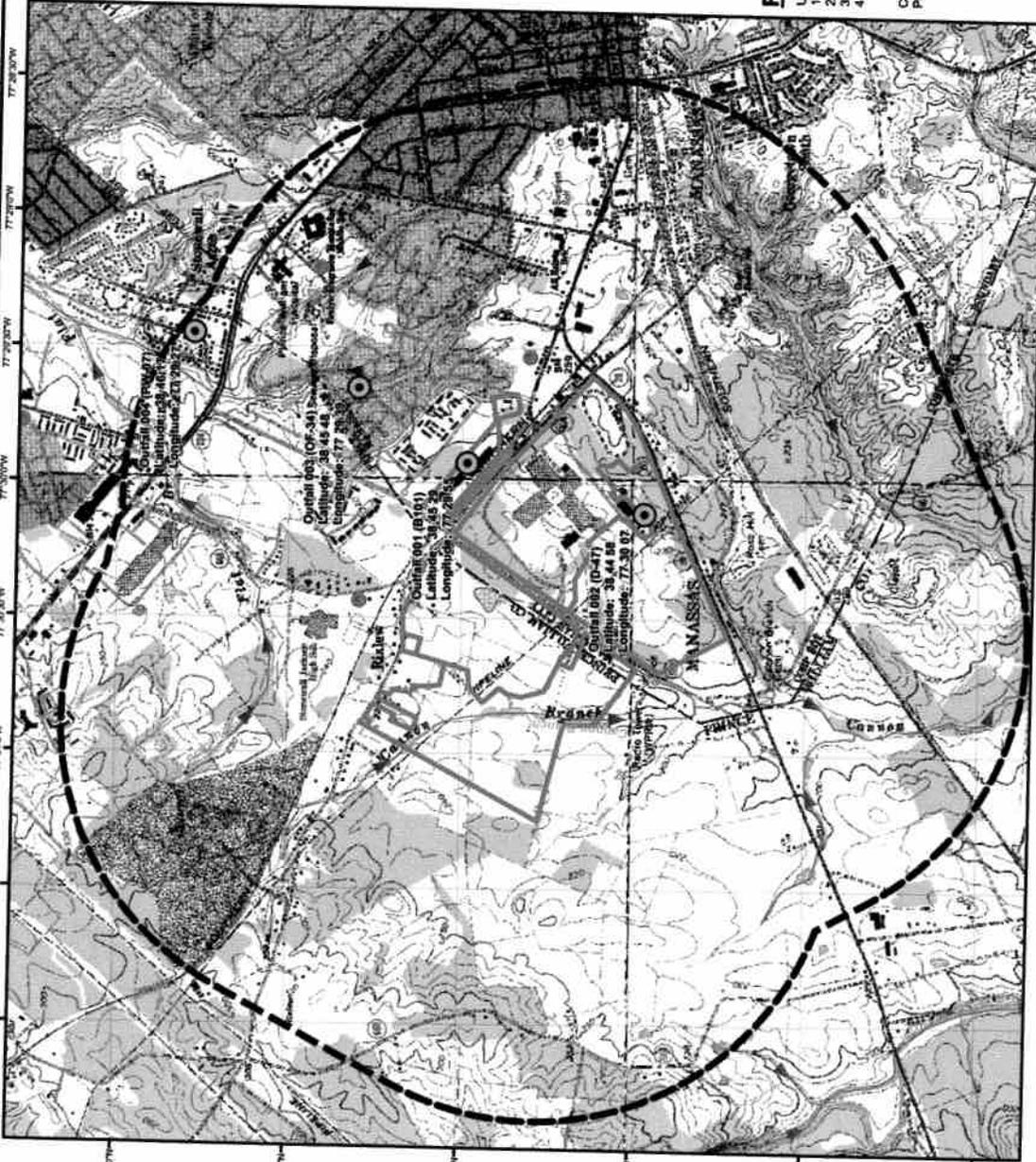
E. ZIP CODE
20110

F. COUNTY CODE (if known)



LEGEND

- Property Boundary
- 1 Mile Buffer From Property Boundary
- IBM VPDES Outfalls
- Known Private Water Supply Well Locations



REFERENCES

- USGS 7.5 Minute Quadrangle Maps:
1. Manassas, VA (Map MRC: 36077G4)
 2. Newmarket, VA (Map MRC: 36077F5)
 3. Centerville, VA (Map MRC: 36077G5)
 4. Independent Hill, VA (Map MRC: 36077F4)
- Coordinate System: NAD 1983 StatePlane Virginia North FIPS 4501 Feet
Projection: Lambert Conformal Conic

Greenboro, NC
Golder Associates

Product No. 09306301 Date 0

File No. VPDES Permit Renewal-Section XI Map

SCALE	AS SHOWN
DATE	5/23/2011
DESIGN	CGP
DRAWN	CGP
CHECKED	BLJ
APPROVED	BLJ



**VPDES Permit Renewal
EPA Form 2C Section XI
One Mile Radius Map**

Former IBM-Manassas

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST 7 4959 (specify) Sanitary Services, NEC				B. SECOND 7 (specify)			
C. THIRD 7 (specify)				D. FOURTH 7 (specify)			

VIII. OPERATOR INFORMATION

A. NAME 8 International Business Machines Corporation															B. Is the name listed in Item VIII-A also the owner? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.) F = FEDERAL S = STATE P = PRIVATE M = PUBLIC (other than federal or state) O = OTHER (specify)															D. PHONE (area code & no.) A (703) 257-2583		
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

E. STREET OR P.O. BOX 8976 Wellington Road														
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

F. CITY OR TOWN B Manassas															G. STATE VA		H. ZIP CODE 20109		IX. INDIAN LAND Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
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X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) 9 N VA085901										D. PSD (Air Emissions from Proposed Sources) 9 P NA									
B. UIC (Underground Injection of Fluids) 9 U NA										E. OTHER (specify) (specify)									
C. RCRA (Hazardous Wastes) 9 R NA										E. OTHER (specify) (specify)									

XI. MAP
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

IBM Corporation owns and operates four groundwater treatment facilities which extract and treat groundwater to prevent the migration of and to remove volatile organic compounds (VOC) present in the groundwater. VOCs in groundwater are associated with historic manufacturing operations at the former IBM Manassas facility. The groundwater remediation program is being conducted as part of an EPA approved corrective action program.

The former IBM manassas facility is owned by several companies, including Lockheed Martin and Micron Technology. IBM's groundwater operations are independent of both companies. The outfalls for the groundwater treatment facility are located on the following properties:

- Outfall 001 is located on Lockheed Martin Property;
- Outfall 002 is located on Micron technology property;
- Outfall 003 is located on City of Manassas property; and,
- Outfall 004 is located on Prince William County property.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print) Edan T. Dionne, Director, Corporate Environmental Affairs		B. SIGNATURE 		C. DATE SIGNED 5/18/2011	
--	--	--	--	-----------------------------	--

COMMENTS FOR OFFICIAL USE ONLY														
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**Form 1 Notes
VPDES No. VA085901
IBM Corporation
Manassas, VA**

Item I

1. EPA ID No. Since the current VPDES permit was issued, per Virginia Department of Environmental Quality direction IBM has obtained separate EPA ID Nos. for the groundwater treatment facilities associated with each outfall and are shown below.

Item VI, Facility Location

1. Outfall 001

9100 Ashton Avenue, Building 500
Manassas, VA 20110
City of Manassas
EPA ID No. VAR000518282

2. Outfall 002

9600 Godwin Drive, Building 401
Manassas, VA 20110
City of Manassas
EPA ID No. VAD064873575

3. Outfall 003

8944 Rolling Road
Manassas, VA 20110
City of Manassas
EPA ID No. VAR000518290

4. Outfall 004

8417 Sunset Drive
Manassas, VA 20110
Prince William County
EPA ID No. VAR0005188316

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JUL 12 2011
DEQ-NRO

Form 2C Notes
VPDES No. VA085901
IBM Corporation
Manassas, VA

Header

1. EPA ID No. Since the current VPDES permit was issued and per Virginia Department of Environmental Quality direction, IBM has obtained separate EPA ID Nos. for the groundwater treatment facilities associated with each outfall. The EPA ID Nos. for the respective outfalls are shown on the respective pages in Item V

Item II, Part A&B

1. Outfall 001 – Pumping well D-80 replaced pumping well D-28 in July 2009. The line drawing shown for Part A shows wells D-39 and D-80 as the influent flow source. Purge water from groundwater monitoring wells and vapor extraction wells is a *de minimus* influent source.
2. Outfall 002 – Purge water from groundwater monitoring wells is a *de minimus* influent source.

Item V, Part A

1. Outfall 001 and 004 – Results for ammonia were 0.39 mg/L and 0.46 mg/L for outfalls 001 and 004, respectively. These results for ammonia are considered to be representative of "background" groundwater quality since the constituents of concern for the groundwater remediation program are four volatile organic compounds (i.e. tetrachloroethene, trichloroethene, *trans* 1,2 -dichloroethene, and trichloroethane).
2. Outfalls 001, 002, 003, and 004 – Maximum daily flow value is based on the maximum daily flow recorded for the year 2010.
3. Outfalls 001, 002, 003, and 004 - Concentrations of the constituents of concern (tetrachloroethene, trichloroethene, *trans* 1,2 -dichloroethene, and trichloroethane) were below both the method detection limit and the laboratory reporting limit (RL) of 1 ug/L with one exception described below. Tetrachloroethene was detected one time (July 22, 2008) at outfall 003 at a concentration of 0.42 ug/L, which was greater than the MDL but less than the RL. (This value is considered to be an estimated value by the laboratory.) Values that were below both the MDL and RL are reported with a less than sign (<) in front of the values. Values between the MDL and RL are reported without the less than sign (<).

Item V, Part B (Notes related to volatile organic compounds)

1. Outfall 002, 003 and 004 – Quarterly VOC effluent samples collected from 2005 through 2010 were used to characterize the effluent.
2. Outfall 001 – In July 2009, well D-28 was replaced with well D-80. Flow from well D-80 and D-39 are combined to form the influent flow for Outfall 001; therefore, for this permit application, the analytical results of the five quarterly sampling events of the combined and treated effluent for VOCs collected from October 2009 to October 2010 have been used to describe the effluent discharge.
3. Outfalls 002, 003 and 004 – Concentrations of fluorobenzene were reported in samples from outfalls 002, 003, and 004 during five sampling events in 2006. These results are considered to be laboratory contaminants and are not representative of water quality since the constituents of concern for the groundwater remediation program are the four chlorinated volatile organic compounds mentioned above.

Item V, Part B (Notes related to data collected prior to 2005 used to characterize the effluent as presented in the 2005 permit application).

1. Outfalls 001, 002, 003, and 004 – Additional inorganics are reported to be present in groundwater samples as noted in the 2005 VPDES permit application Form 2C. The 2005 application indicated that in addition to the compounds presented on Item V Part B, other inorganic compounds and metals may be present in the groundwater; however, all inorganic compounds and metals are considered to be representative of "background" groundwater quality since the constituents of concern for the groundwater remediation program are four volatile organic compounds (i.e. tetrachloroethene, trichloroethene, *trans* 1,2 - dichloroethene, and trichloroethane).
2. Outfalls 001, 002, 003, and 004 - VOCs which are not constituents of concern have been historically reported as present at concentrations greater than the MDL at the four outfalls as summarized below. The parameters listed below have not been detected in the compliance samples collected from 2005 through 2010. These VOCs are considered to be anomalies and therefore are not included on the 2010 application.

Outfall	Parameter	Concentration (ug/L)		Number of samples	Number of Detections	Detected in 2005 to 2010 Analytical Results?
		Maximum	Average			
001	Benzene	0.89	0.09	16	2	No
001	Dichlorodifluoromethane	0.42	0.05	16	2	No
001	Chloromethane	1.03	0.09	16	2	No
002	Ethylbenzene	0.14	0.02	15	2	No
002	Chloromethane	1.24	0.17	15	2	No
003	Dichlorodifluoromethane	2.34	0.17	16	2	No
003	Chloromethane	0.80	0.13	16	2	No

Outfall	Parameter	Concentration (ug/L)		Number of samples	Number of Detections	Detected in 2005 to 2010 Analytical Results?
		Maximum	Average			
004	Chloromethane	0.18	0.00	7	2	No

3. Outfall 004 – For the 2005 Permit application oil and grease and the pesticide heptachlor were reported on Form 2C. Outfall 004 has not been retested for these parameters and therefore these parameters are reported as “believed present”
- Oil and grease was detected in duplicate samples at concentrations of 6.3 mg/L and 42 mg/L at a reporting limit of 5.1 mg/L. The higher value was reported on the form; however, these data appear to be an anomaly.
 - Heptachlor was detected in duplicate samples at concentrations of 0.041 ug/L and 0.011j ug/L at a reporting limit of 0.021 ug/L.

Analytical results provided in the 2005 permit application, but not reported on Form 2C, are shown in the table below. These include Nitrate, Bis(2-ethylhexyl)phalate, Arsenic, Copper, Lead, Nickel, Selenium, Zinc, and Mercury. These parameters are reported as “believed present”. All inorganic compounds and metals are considered to be representative of “background” groundwater quality since the constituents of concern for the groundwater remediation program are four volatile organic compounds (i.e. tetrachloroethene, trichloroethene, *trans* 1,2 -dichloroethene, and trichloroethane). Bis(2-ethylhexyl)phalate was detected twice in duplicate samples at concentrations of 1.2 ug/L and 6.7 ug/L. Both samples were detected below the laboratory reporting limits of 10 ug/L and 11 ug/L, respectively.

Date	10/5/2005		11/15/2005	8/3/2006	
	004-26-A 004-08-A 004-01-A 004-02-A 004-04-A	004-01-B 004-02-B	004-42	IBM-004-Eff-01	IBM-004-Eff-02
Fluoride mg/L	0.13	--	--	--	--
Nitrate mg/L	1.5	--	--	--	--
Hardness mg/L	360	--	--	--	--
Heptachlor ug/L	0.041	0.011jp	--	BQL	BQL
Bis(2-Ethylhexyl)Phalate ug/L	1.2j	6.7j	--	--	--
Chlorine mg/L	0.09	--	--	--	--
Arsenic ug/L	--	--	2.4j	--	--
Copper ug/L	--	--	0.46j	--	--
Lead ug/L	--	--	0.71j	--	--

✓ Nickel ug/L	--	--	0.43j	--	--
✓ Selenium ug/L	--	--	3.4	4.1	4.1
✓ Zinc ug/L	--	--	65	--	--
✓ Mercury ug/L	--	--	0.084j	--	--

Notes:

1. j – Value is less than the reporting limit but greater than the method detection limit.
2. p – Indicates that there is greater than 25% difference for detected pesticide results between the two GC columns.
3. BQL – below quantitation limit. Laboratory did not provide value for quantitation limit. The reporting limit for the August 2006 Heptachlor analyses was 0.02 ug/L.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
See Form 2C Notes

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

Please print or type in the unshaded areas only.

**FORM
2C
NPDES**



**U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program**

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	38	45	30	77	30	55	Unnamed tributary to Canon Branch
002	38	44	58	77	30	07	Unnamed tributary to Canon Branch
003	38	45	45	77	29	39	Unnamed tributary to Flat Branch
004	38	46	15	77	29	27	Unnamed tributary to Flat Branch

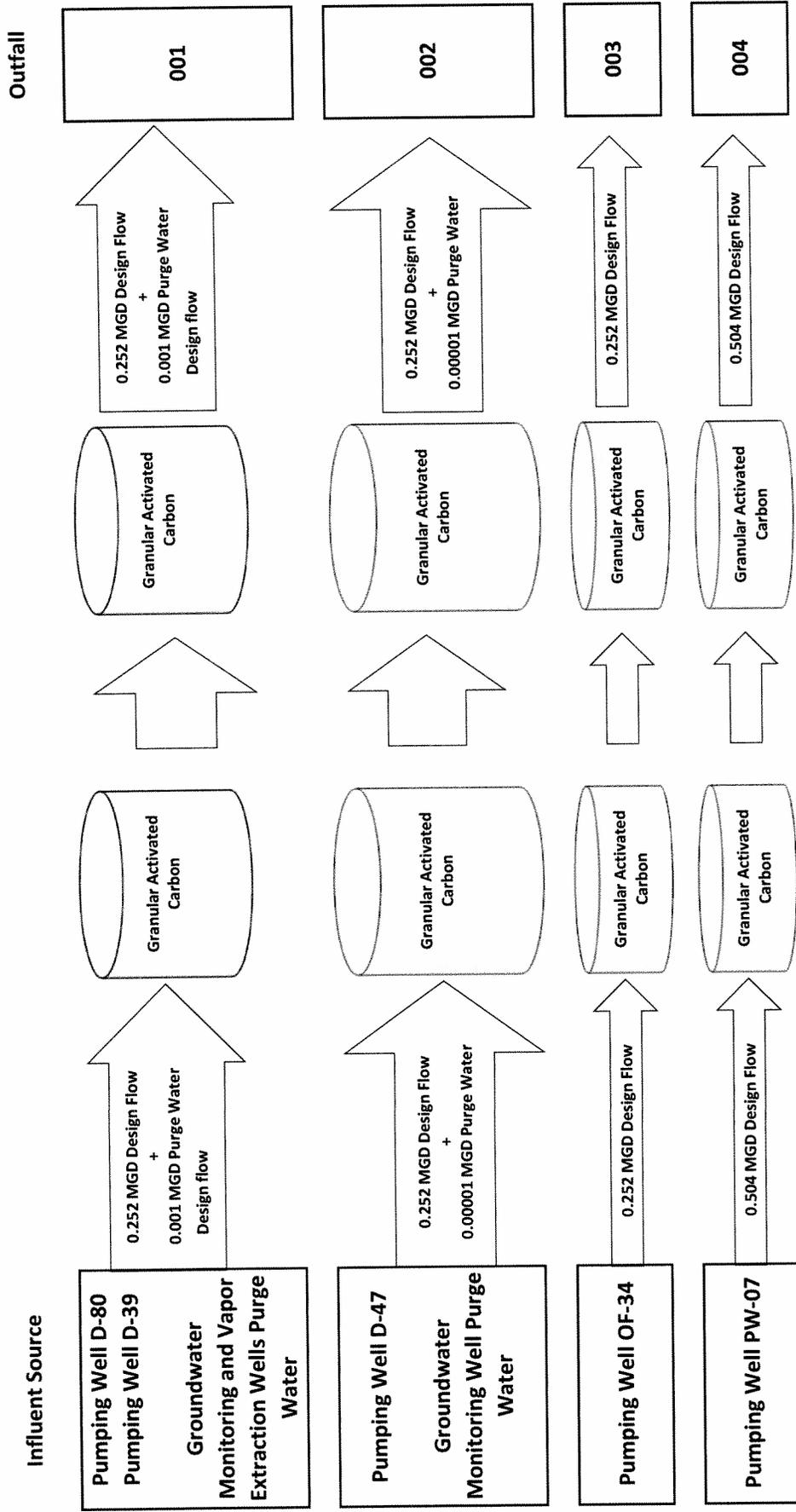
II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units) **	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	Groundwater pump and treat system	0.252 MGD	Two stage carbon adsorption	2 A
	Groundwater monitoring and vapor extraction wells purge water	0.001 MGD		
002	Groundwater pump and treat system	0.252 MGD	Two stage carbon adsorption	2 A
	Groundwater monitoring well purge water.	0.00001 MGD		
003	Groundwater pump and treat system	0.252 MGD	Two stage carbon adsorption	2 A
004	Groundwater pump and treat system	0.504 MGD	Two stage carbon adsorption	2 A
** Design flow rates for treatment systems based on 15 minute contact time.				

OFFICIAL USE ONLY (effluent guidelines sub-categories)



Line Drawing of Existing IBM Groundwater Treatment System

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?
 YES (complete the following table) NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
	Not applicable							

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?
 YES (complete Item III-B) NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
 YES (complete Item III-C) NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	
	Not applicable		

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.
 YES (complete the following table) NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
RCRA 3008 (h) Administrative Order on Consent (RCRA III-032-CA) between IBM and EPA, dated Feb, 1991	001	Treated Groundwater	Four groundwater pump and treat systems to prevent the migration of and remove the following volatile organic compounds: - tetrachloroethene (PCE) - trichloroethene (TCE) - trans 1,2-dichloroethene (DCE) - 1,1,1-trichloroethane (TCA)		2041
	002	Treated Groundwater			
	003	Treated Groundwater			
	004	Treated Groundwater			

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.
 MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

EPA I.D. NUMBER (copy from Item 1 of Form 1)
See Form 2C Notes

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None	NA	None	NA

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?
 YES (list all such pollutants below) NO (go to Item VI-B)

Empty space for listing pollutants.

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

Whole effluent toxicity tests have been conducted on the effluent from outfall 003 pursuant to the terms and conditions of the current VPDES permit (i.e. quarterly sampling for years 1-3, and annual sampling for years 4 and 5). Tests included 48 hour static acute tests with Ceriodaphnia dubia and Pimephales promelas and chronic 3-brood static renewal/survival and reproduction test with Ceriodaphnia dubia, and chronic 7-day static/renewal survival and growth test with Pimephales promelas.

Results have been reported in the discharge monitoring reports.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
GPL Laboratories	7210A Corporate Court Frederick, MD 21703	301-694-5310	Conventional pollutants, metal organics, pesticides, volatiles
Frederickstowne Labs, Inc.	3820 Ventrie Court Myersville, MD 21773	301-293-3340	Fecal coliform
Paradigm Analytical Laboratories, Inc.	5500 Business Drive Wilmington, NC 28450	910-350-1903	Dioxane
IBM Hudson Valley Environmental Laboratory.	2070 Route 52 Hopewell Junction, NY 12533	845-894-5400	Volatiles
Accutest Laboratories	2235 Route 130, Dayton, NJ 08810	732-329-0200	Volatiles

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)
Edan T. Dionne, Director, Corporate Environmental Affairs

B. PHONE NO. (area code & no.)
(914) 766-2729

C. SIGNATURE


D. DATE SIGNED
5/18/2011

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAR000518282

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Biochemical Oxygen Demand (BOD)	< 2.0						1	mg/L			
b. Chemical Oxygen Demand (COD)	< 20						1	mg/L			
c. Total Organic Carbon (TOC)	< 1.0						1	mg/L			
d. Total Suspended Solids (TSS)	< 4.0						1	mg/L			
e. Ammonia (as N)	0.39						1	mg/L			
f. Flow	VALUE 0.093		VALUE 0.090		VALUE 0.079		365	NA	MGD	VALUE	
g. Temperature (winter)	VALUE 17.7		VALUE 17.7		VALUE 16.0		3	°C		VALUE	
h. Temperature (summer)	VALUE 22.4		VALUE 22.4		VALUE 21.0		2	°C		VALUE	
i. pH	MINIMUM 6.95	MAXIMUM 7.35	MINIMUM 6.95	MAXIMUM 7.35			5	STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Bromide (24959-67-9)	X			0.21					1	mg/L		See notes	
b. Chlorine, Total Residual		X											
c. Color		X											
d. Fecal Coliform		X											
e. Fluoride (16984-48-8)	X			0.12					1	mg/L		See notes	
f. Nitrate-Nitrite (as N)		X											

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X									
h. Oil and Grease		X									
i. Phosphorus (as P), Total (7723-14-0)		X									
j. Radioactivity											
(1) Alpha, Total		X									
(2) Beta, Total		X									
(3) Radium, Total		X									
(4) Radium 226, Total		X									
k. Sulfate (as SO ₄) (14808-79-8)	X		12.0					1	mg/L	See notes	
l. Sulfide (as S)		X									
m. Sulfite (as SO ₃) (14265-45-3)		X									
n. Surfactants		X									
o. Aluminum, Total (7429-90-5)		X									
p. Barium, Total (7440-39-3)		X									
q. Boron, Total (7440-42-8)		X									
r. Cobalt, Total (7440-48-4)		X									
s. Iron, Total (7439-89-6)		X									
t. Magnesium, Total (7439-95-4)		X									
u. Molybdenum, Total (7439-98-7)		X									
v. Manganese, Total (7439-96-5)		X									
w. Tin, Total (7440-31-5)		X									
x. Titanium, Total (7440-32-6)		X									

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAR000518282** OUTFALL NUMBER **001**

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS											
1M. Antimony, Total (7440-36-0)			X								
2M. Arsenic, Total (7440-38-2)			X								
3M. Beryllium, Total (7440-41-7)			X								
4M. Cadmium, Total (7440-43-9)			X								
5M. Chromium, Total (7440-47-3)			X								
6M. Copper, Total (7440-50-8)			X								
7M. Lead, Total (7439-92-1)			X								
8M. Mercury, Total (7439-97-6)			X								
9M. Nickel, Total (7440-02-0)			X								
10M. Selenium, Total (7782-49-2)			X								
11M. Silver, Total (7440-22-4)			X								
12M. Thallium, Total (7440-28-0)			X								
13M. Zinc, Total (7440-66-6)			X								
14M. Cyanide, Total (57-12-5)			X								
15M. Phenols, Total			X								
DIOXIN											
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X								
										DESCRIBE RESULTS	

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES	
	(if available)			(2) MASS	(2) MASS	(2) MASS	ANALYSES			(2) MASS	ANALYSES	
GC/MS FRACTION - VOLATILE COMPOUNDS												
1V. Acrolein (107-02-8)			X									
2V. Acrylonitrile (107-13-1)			X									
3V. Benzene (71-43-2)			X									
4V. Bis (Chloro-methyl) Ether (542-86-1)			X									
5V. Bromoform (75-25-2)			X									
6V. Carbon Tetrachloride (56-23-5)			X									
7V. Chlorobenzene (108-90-7)			X									
8V. Chlorodi-bromomethane (124-48-1)			X									
9V. Chloroethane (75-00-3)			X									
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X									
11V. Chloroform (67-66-3)			X									
12V. Dichloro-bromomethane (75-27-4)			X									
13V. Dichloro-difluoromethane (75-71-8)			X									
14V. 1,1-Dichloro-ethane (75-34-3)			X									
15V. 1,2-Dichloro-ethane (107-06-2)			X									
16V. 1,1-Dichloro-ethylene (75-35-4)			X									
17V. 1,2-Dichloro-propane (78-87-5)			X									
18V. 1,3-Dichloro-propylene (542-75-6)			X									
19V. Ethylbenzene (100-41-4)			X									
20V. Methyl Bromide (74-83-9)			X									
21V. Methyl Chloride (74-87-3)			X									

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED (if available)	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)														
22V. Methylene Chloride (75-09-2)			X											
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X											
24V. Tetrachloroethylene (127-18-4)		X		<0.51	<0.15			<0.51	<0.15	5	ug/L	g/day		
25V. Toluene (108-88-3)			X											
26V. 1,2-Trans-Dichloroethylene (156-60-5)		X		<0.35	<0.10			<0.35	<0.10	5	ug/L	g/day		
27V. 1,1,1-Trichloroethane (71-55-6)		X		<0.21	<0.06			<0.21	<0.06	5	ug/L	g/day		
28V. 1,1,2-Trichloroethane (79-00-5)			X											
29V. Trichloroethylene (79-01-6)		X		<0.25	<0.07			<0.25	<0.07	5	ug/L	g/day		
30V. Trichlorofluoromethane (75-69-4)		X												
31V. Vinyl Chloride (75-01-4)		X												
GC/MS FRACTION - ACID COMPOUNDS														
1A. 2-Chlorophenol (95-57-8)			X											
2A. 2,4-Dichlorophenol (120-83-2)			X											
3A. 2,4-Dimethylphenol (105-67-9)			X											
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X											
5A. 2,4-Dinitrophenol (51-28-5)			X											
6A. 2-Nitrophenol (88-75-5)			X											
7A. 4-Nitrophenol (100-02-7)			X											
8A. P-Chloro-M-Cresol (59-50-7)			X											
9A. Pentachlorophenol (87-86-5)			X											
10A. Phenol (108-95-2)			X											
11A. 2,4,6-Trichlorophenol (88-05-2)			X											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS											
1B. Acenaphthene (83-32-9)			X								
2B. Acenaphthylene (208-96-8)			X								
3B. Anthracene (120-12-7)			X								
4B. Benzidine (92-87-5)			X								
5B. Benzo (a) Anthracene (56-55-3)			X								
6B. Benzo (a) Pyrene (50-32-8)			X								
7B. 3,4-Benzofluoranthene (205-99-2)			X								
8B. Benzo (ghi) Perylene (191-24-2)			X								
9B. Benzo (k) Fluoranthene (207-08-9)			X								
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X								
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X								
12B. Bis (2-Chloroisopropyl) Ether (102-90-1)			X								
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X								
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X								
15B. Butyl Benzyl Phthalate (85-66-7)			X								
16B. 2-Chloronaphthalene (91-58-7)			X								
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X								
18B. Chrysene (218-01-9)			X								
19B. Dibenzo (a,h) Anthracene (53-70-3)			X								
20B. 1,2-Dichlorobenzene (95-50-1)			X								
21B. 1,3-Dichlorobenzene (64-1-73-1)			X								

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED (if available)	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)														
22B. 1,4-Dichloro-benzene (106-46-7)			X											
23B. 3,3-Dichloro-benzidine (91-94-1)			X											
24B. Diethyl Phthalate (84-66-2)			X											
25B. Dimethyl Phthalate (131-11-3)			X											
26B. Di-N-Butyl Phthalate (84-74-2)			X											
27B. 2,4-Dinitro-toluene (121-14-2)			X											
28B. 2,6-Dinitro-toluene (606-20-2)			X											
29B. Di-N-Octyl Phthalate (117-84-0)			X											
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)			X											
31B. Fluoranthene (206-44-0)			X											
32B. Fluorene (86-73-7)			X											
33B. Hexachloro-benzene (118-74-1)			X											
34B. Hexachloro-butadiene (87-68-3)			X											
35B. Hexachloro-cyclopentadiene (77-47-4)			X											
36B. Hexachloro-ethane (87-72-1)			X											
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X											
38B. Isophorone (78-59-1)			X											
39B. Naphthalene (91-20-3)			X											
40B. Nitrobenzene (98-95-3)			X											
41B. N-Nitro-sodimethylamine (62-75-9)			X											
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT		4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)									
43B. N-Nitro-souphenylamine (86-30-6)			X						
44B. Phenanthrene (85-01-8)			X						
45B. Pyrene (129-00-0)			X						
46B. 1,2,4-Trichlorobenzene (120-82-1)			X						
GC/MS FRACTION - PESTICIDES									
1P. Aldrin (309-00-2)			X						
2P. α-BHC (319-84-6)			X						
3P. β-BHC (319-85-7)			X						
4P. γ-BHC (58-99-9)			X						
5P. δ-BHC (319-86-8)			X						
6P. Chlordane (57-74-9)			X						
7P. 4,4'-DDT (50-29-3)			X						
8P. 4,4'-DDE (72-55-9)			X						
9P. 4,4'-DDD (72-54-8)			X						
10P. Dieldrin (60-57-1)			X						
11P. α-Endosulfan (115-29-7)			X						
12P. β-Endosulfan (115-29-7)			X						
13P. Endosulfan Sulfate (1031-07-8)			X						
14P. Endrin (72-20-8)			X						
15P. Endrin Aldelyde (7421-93-4)			X						
16P. Heptachlor (76-44-8)			X						

EPA I.D. NUMBER (copy from Item 1 of Form 1)
 VAR000518282

OUTFALL NUMBER
 001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION - PESTICIDES (continued)												
17P. Heptachlor Epoxide (1024-57-3)			X									
18P. PCB-1242 (53469-21-9)			X									
19P. PCB-1254 (11097-69-1)			X									
20P. PCB-1221 (11104-28-2)			X									
21P. PCB-1232 (11141-16-5)			X									
22P. PCB-1248 (12672-29-6)			X									
23P. PCB-1260 (11096-82-5)			X									
24P. PCB-1016 (12674-11-2)			X									
25P. Toxaphene (8001-35-2)			X									

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAD064873575

OUTFALL NO.
002

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify, if blank)				4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Biochemical Oxygen Demand (BOD)	< 2.0						1	mg/L			
b. Chemical Oxygen Demand (COD)	< 20						1	mg/L			
c. Total Organic Carbon (TOC)	< 1.0						1	mg/L			
d. Total Suspended Solids (TSS)	< 4.0						1	mg/L			
e. Ammonia (as N)	< 0.20						1	mg/L			
f. Flow	VALUE 0.052		VALUE 0.045		VALUE 0.041		365	N/A	MGD	VALUE	
g. Temperature (winter)	VALUE 21.5		VALUE 21.5		VALUE 17.5		4	°C		VALUE	
h. Temperature (summer)	VALUE 25.1		VALUE 25.1		VALUE 21.1		4	°C		VALUE	
i. pH	MINIMUM 6.89	MAXIMUM 7.59	MINIMUM 6.89	MAXIMUM 7.59			8	STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Bromide (24959-87-9)	X		0.15						1	mg/L		See notes	
b. Chlorine, Total Residual		X											
c. Color		X											
d. Fecal Coliform		X											
e. Fluoride (16984-48-8)	X		0.11						1	mg/L		See notes	
f. Nitrate-Nitrite (as N)		X											

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS			5. INTAKE (optional)				
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO ₄) (14808-79-8)		X												
l. Sulfide (as S)	X		2.1 . 0						1	mg/L		See notes		
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAD064873575**
 OUTFALL NUMBER **002**

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES
						(1) CONCENTRATION	(2) MASS			
METALS, CYANIDE, AND TOTAL PHENOLS										
1M. Antimony, Total (7440-36-0)			X							
2M. Arsenic, Total (7440-38-2)			X							
3M. Beryllium, Total (7440-41-7)			X							
4M. Cadmium, Total (7440-43-9)			X							
5M. Chromium, Total (7440-47-3)			X							
6M. Copper, Total (7440-50-6)			X							
7M. Lead, Total (7439-92-1)			X							
8M. Mercury, Total (7439-97-6)			X							
9M. Nickel, Total (7440-02-0)			X							
10M. Selenium, Total (7782-49-2)			X							
11M. Silver, Total (7440-22-4)			X							
12M. Thallium, Total (7440-28-0)			X							
13M. Zinc, Total (7440-66-6)			X							
14M. Cyanide, Total (57-12-5)			X							
15M. Phenols, Total			X							
DIOXIN										
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X							

DESCRIBE RESULTS

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - VOLATILE COMPOUNDS											
1V. Acrolein (107-02-8)			X								
2V. Acrylonitrile (107-13-1)			X								
3V. Benzene (71-43-2)			X								
4V. Bis (Chloromethyl) Ether (542-88-1)			X								
5V. Bromoform (75-25-2)			X								
6V. Carbon Tetrachloride (56-23-5)			X								
7V. Chlorobenzene (108-90-7)			X								
8V. Chlorobromomethane (124-48-1)			X								
9V. Chloroethane (75-00-3)			X								
10V. 2-Chloroethylvinyl Ether (110-75-8)			X								
11V. Chloroform (67-66-3)			X								
12V. Dichlorobromomethane (75-27-4)			X								
13V. Dichlorodifluoromethane (75-71-8)			X								
14V. 1,1-Dichloroethane (75-34-3)			X								
15V. 1,2-Dichloroethane (107-06-2)			X								
16V. 1,1-Dichloroethylene (75-35-4)			X								
17V. 1,2-Dichloropropane (78-87-5)			X								
18V. 1,3-Dichloropropane (542-75-6)			X								
19V. Ethylbenzene (100-41-4)			X								
20V. Methyl Bromide (74-83-9)			X								
21V. Methyl Chloride (74-87-3)			X								

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)												
22V. Methylene Chloride (75-09-2)			X									
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X									
24V. Tetrachloroethylene (127-18-4)		X		<0.58	<0.09				22	ug/L	g/day	
25V. Toluene (108-88-3)			X									
26V. 1,2-Trans-Dichloroethylene (156-60-5)		X		<0.38	<0.06				22	ug/L	g/day	
27V. 1,1,1-Trichloroethane (71-55-6)		X		<0.42	<0.07				22	ug/L	g/day	
28V. 1,1,2-Trichloroethane (79-00-5)		X										
29V. Trichloroethylene (79-01-6)		X		<0.43	<0.07				22	ug/L	g/day	
30V. Trichlorofluoromethane (75-69-4)		X										
31V. Vinyl Chloride (75-01-4)		X										
GC/MS FRACTION - ACID COMPOUNDS												
1A. 2-Chlorophenol (95-57-8)			X									
2A. 2,4-Dichlorophenol (120-83-2)			X									
3A. 2,4-Dimethylphenol (105-67-9)			X									
4A. 4,6-Dinitro-Cresol (534-52-1)			X									
5A. 2,4-Dinitrophenol (51-28-5)			X									
6A. 2-Nitrophenol (88-75-5)			X									
7A. 4-Nitrophenol (100-02-7)			X									
8A. P-Chloro-M-Cresol (59-50-7)			X									
9A. Pentachlorophenol (87-86-5)			X									
10A. Phenol (108-95-2)			X									
11A. 2,4,6-Trichlorophenol (88-05-2)			X									

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASENEUTRAL COMPOUNDS													
1B. Acenaphthene (83-32-9)			X										
2B. Acenaphthylene (208-96-8)			X										
3B. Anthracene (120-12-7)			X										
4B. Benzidine (92-87-5)			X										
5B. Benzo (a) Anthracene (56-55-3)			X										
6B. Benzo (a) Pyrene (50-32-8)			X										
7B. 3,4-Benzofluoranthene (205-99-2)			X										
8B. Benzo (ghi) Perylene (191-24-2)			X										
9B. Benzo (k) Fluoranthene (207-08-9)			X										
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X										
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X										
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)			X										
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X										
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X										
15B. Butyl Benzyl Phthalate (85-68-7)			X										
16B. 2-Chloronaphthalene (91-58-7)			X										
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X										
18B. Chrysene (218-01-9)			X										
19B. Dibenzo (a,h) Anthracene (53-70-3)			X										
20B. 1,2-Dichlorobenzene (95-50-1)			X										
21B. 1,3-Dichlorobenzene (541-73-1)			X										

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
22B. 1,4-Dichlorobenzene (106-46-7)			X								
23B. 3,3-Dichlorobenzidine (91-94-1)			X								
24B. Diethyl Phthalate (84-66-2)			X								
25B. Dimethyl Phthalate (131-11-3)			X								
26B. Di-N-Butyl Phthalate (84-74-2)			X								
27B. 2,4-Dinitrotoluene (121-14-2)			X								
28B. 2,6-Dinitrotoluene (606-20-2)			X								
29B. Di-N-Octyl Phthalate (117-84-0)			X								
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-86-7)			X								
31B. Fluoranthene (206-44-0)			X								
32B. Fluorene (86-73-7)			X								
33B. Hexachlorobenzene (118-74-1)			X								
34B. Hexachlorobutadiene (67-68-3)			X								
35B. Hexachlorocyclopentadiene (77-47-4)			X								
36B. Hexachloroethane (67-72-1)			X								
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X								
38B. Isophorone (78-59-1)			X								
39B. Naphthalene (91-20-3)			X								
40B. Nitrobenzene (98-95-3)			X								
41B. N-Nitrosodimethylamine (62-75-9)			X								
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X								

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
43B. N-Nitrosodiphenylamine (96-30-6)			X								
44B. Phenanthrene (85-01-6)			X								
45B. Pyrene (129-00-0)			X								
46B. 1,2,4-Trichlorobenzene (120-82-1)			X								
GC/MS FRACTION - PESTICIDES											
1P. Aldrin (309-00-2)			X								
2P. α-BHC (319-84-6)			X								
3P. β-BHC (319-85-7)			X								
4P. γ-BHC (58-89-9)			X								
5P. δ-BHC (319-86-8)			X								
6P. Chlordane (57-74-9)			X								
7P. 4,4'-DDT (50-29-3)			X								
8P. 4,4'-DDE (72-55-9)			X								
9P. 4,4'-DDD (72-54-8)			X								
10P. Dieldrin (60-57-1)			X								
11P. α-Endosulfan (115-29-7)			X								
12P. β-Endosulfan (115-29-7)			X								
13P. Endosulfan Sulfate (1031-07-8)			X								
14P. Endrin (72-20-8)			X								
15P. Endrin Aldehyde (7421-93-4)			X								
16P. Heptachlor (76-44-8)			X								

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)
 VAD064873575

OUTFALL NUMBER
 002

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available) (1)	c. LONG TERM AVRG. VALUE (if available) (1)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
GC/MS FRACTION - PESTICIDES (continued)	(1)	(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	(2) MASS CONCENTRATION	(2) MASS ANALYSES	(2) MASS CONCENTRATION	(2) MASS ANALYSES	(2) MASS CONCENTRATION	(2) MASS ANALYSES
17P. Heptachlor Epoxide (1024-57-3)			X								
18P. PCB-1242 (53469-21-9)			X								
19P. PCB-1254 (11097-69-1)			X								
20P. PCB-1221 (11104-28-2)			X								
21P. PCB-1232 (11141-16-5)			X								
22P. PCB-1248 (12672-29-6)			X								
23P. PCB-1260 (11096-82-5)			X								
24P. PCB-1016 (12674-11-2)			X								
25P. Toxaphene (8001-35-2)			X								

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAR000518290

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
003

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
a. Biochemical Oxygen Demand (BOD)	< 2.0						1	mg/L			
b. Chemical Oxygen Demand (COD)	< 20						1	mg/L			
c. Total Organic Carbon (TOC)	< 1.0						1	mg/L			
d. Total Suspended Solids (TSS)	< 4.0						1	mg/L			
e. Ammonia (as N)	< 0.20						1	mg/L			
f. Flow	VALUE 0.070		VALUE 0.064		VALUE 0.057		365	MGD	VALUE		
g. Temperature (winter)	VALUE 17.5		VALUE 17.5		VALUE 16.0		4	°C	VALUE		
h. Temperature (summer)	VALUE 19.3		VALUE 19.3		VALUE 17.5		4	°C	VALUE		
i. pH	MINIMUM 6.56	MAXIMUM 7.83	MINIMUM 6.56	MAXIMUM 7.83			8	STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"				3. EFFLUENT				4. UNITS				5. INTAKE (optional)	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						(1) CONCENTRATION
a. Bromide (24959-67-9)	X		0.12						1	mg/L	kg	See notes		
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS			5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
g. Nitrogen, Total Organic (as N)		X											
h. Oil and Grease		X											
i. Phosphorus (as P), Total (7723-14-0)		X											
j. Radioactivity													
(1) Alpha, Total		X											
(2) Beta, Total		X											
(3) Radium, Total		X											
(4) Radium 226, Total		X											
k. Sulfate (as SO ₄) (14808-79-8)	X		67.0						1	mg/L	kg	See notes	
l. Sulfide (as S)		X											
m. Sulfite (as SO ₃) (14265-45-3)		X											
n. Surfactants		X											
o. Aluminum, Total (7429-90-5)		X											
p. Barium, Total (7440-39-3)		X											
q. Boron, Total (7440-42-8)		X											
r. Cobalt, Total (7440-48-4)		X											
s. Iron, Total (7439-89-6)		X											
t. Magnesium, Total (7439-95-4)		X											
u. Molybdenum, Total (7439-98-7)		X											
v. Manganese, Total (7439-96-5)		X											
w. Tin, Total (7440-31-5)		X											
x. Titanium, Total (7440-32-6)		X											

CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1 of Form 1) **VAR000518290**
 OUTFALL NUMBER **003**

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (Secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT			4. UNITS				5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	5. INTAKE (optional)		
										a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES	
METALS, CYANIDE, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-36-0)			X									
2M. Arsenic, Total (7440-38-2)			X									
3M. Beryllium, Total (7440-41-7)			X									
4M. Cadmium, Total (7440-43-9)			X									
5M. Chromium, Total (7440-47-3)			X									
6M. Copper, Total (7440-50-8)			X									
7M. Lead, Total (7439-92-1)			X									
8M. Mercury, Total (7439-97-6)			X									
9M. Nickel, Total (7440-02-0)			X									
10M. Selenium, Total (7782-49-2)			X									
11M. Silver, Total (7440-22-4)			X									
12M. Thallium, Total (7440-28-0)			X									
13M. Zinc, Total (7440-66-6)			X									
14M. Cyanide, Total (57-12-5)			X									
15M. Phenols, Total			X									
DIOXIN												
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X									

DESCRIBE RESULTS

CONTINUED FROM THE FRONT

1. POLLUTANT AND GAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) AVERAGE VALUE
GC/MS FRACTION - VOLATILE COMPOUNDS													
1V. Acrolein (107-02-8)			X										
2V. Acrylonitrile (107-13-1)			X										
3V. Benzene (71-43-2)			X										
4V. Bis (Chloromethyl) Ether (542-88-1)			X										
5V. Bromoform (75-25-2)			X										
6V. Carbon Tetrachloride (56-23-5)			X										
7V. Chlorobenzene (108-90-7)			X										
8V. Chlorodibromomethane (124-48-1)			X										
9V. Chloroethane (75-00-3)			X										
10V. 2-ChloroethyVinyl Ether (110-75-8)			X										
11V. Chloroform (67-66-3)			X										
12V. Dichlorobromomethane (75-27-4)			X										
13V. Dichlorodifluoromethane (75-71-8)			X										
14V. 1,1-Dichloroethane (75-34-3)			X										
15V. 1,2-Dichloroethane (107-06-2)			X										
16V. 1,1-Dichloroethylene (75-35-4)			X										
17V. 1,2-Dichloropropane (78-87-5)			X										
18V. 1,3-Dichloropropylene (542-75-6)			X										
19V. Ethylbenzene (100-41-4)			X										
20V. Methyl Bromide (74-83-9)			X										
21V. Methyl Chloride (74-87-3)			X										

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)													
22V. Methylene Chloride (75-09-2)			X										
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X										
24V. Tetrachloroethylene (127-18-4)		X		0.42	0.09				ug/L	g/day		See notes	
25V. Toluene (108-88-3)			X										
26V. 1,2-Trans-Dichloroethylene (156-60-5)		X		<0.38	<0.08				ug/L	g/day			
27V. 1,1,1-Trichloroethane (71-55-6)		X		<0.42	<0.09				ug/L	g/day			
28V. 1,1,2-Trichloroethane (79-00-5)			X										
29V. Trichloroethylene (79-01-6)		X		<0.45	<0.10				ug/L	g/day			
30V. Trichlorofluoromethane (75-69-4)		X											
31V. Vinyl Chloride (75-01-4)		X											
GC/MS FRACTION - ACID COMPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X										
2A. 2,4-Dichlorophenol (120-83-2)			X										
3A. 2,4-Dimethylphenol (105-67-9)			X										
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X										
5A. 2,4-Dinitrophenol (51-28-5)			X										
6A. 2-Nitrophenol (88-75-5)			X										
7A. 4-Nitrophenol (100-02-7)			X										
8A. P-Chloro-M-Cresol (59-50-7)			X										
9A. Pentachlorophenol (87-86-5)			X										
10A. Phenol (108-95-2)			X										
11A. 2,4,6-Trichlorophenol (88-05-2)			X										

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS										
1B. Acenaphthene (83-32-9)			X							
2B. Acenaphthylene (208-96-8)			X							
3B. Anthracene (120-12-7)			X							
4B. Benzidine (92-87-5)			X							
5B. Benzo (a) Anthracene (56-55-3)			X							
6B. Benzo (a) Pyrene (50-32-8)			X							
7B. 3,4-Benzofluoranthene (205-99-2)			X							
8B. Benzo (ghi) Perylene (191-24-2)			X							
9B. Benzo (k) Fluoranthene (207-08-9)			X							
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X							
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X							
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X							
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X							
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X							
15B. Butyl Benzyl Phthalate (85-68-7)			X							
16B. 2-Chloronaphthalene (91-58-7)			X							
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X							
18B. Chrysene (218-01-9)			X							
19B. Dibenz (a,h) Anthracene (53-70-3)			X							
20B. 1,2-Dichlorobenzene (95-50-1)			X							
21B. 1,3-Dichlorobenzene (641-73-1)			X							

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)					
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		c. LONG TERM AVRG. VALUE (if available) (1)		d. NO. OF ANALYSES	a. CONCENTRATION (1)	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS					
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)														
22B. 1,4-Dichloro-benzene (106-46-7)			X											
23B. 3,3-Dichloro-benzidine (91-94-1)			X											
24B. Diethyl Phthalate (84-66-2)			X											
25B. Dimethyl Phthalate (131-11-3)			X											
26B. Di-N-Butyl Phthalate (84-74-2)			X											
27B. 2,4-Dinitro-toluene (121-14-2)			X											
28B. 2,6-Dinitro-toluene (606-20-2)			X											
29B. Di-N-Octyl Phthalate (117-84-0)			X											
30B. 1,2-Diphenyl-hydrazine (as Azo-benzene) (122-66-7)			X											
31B. Fluoranthene (206-44-0)			X											
32B. Fluorene (86-73-7)			X											
33B. Hexachloro-benzene (118-74-1)			X											
34B. Hexachloro-butadiene (87-68-3)			X											
35B. Hexachloro-cyclopentadiene (77-47-4)			X											
36B. Hexachloro-ethane (67-72-1)			X											
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X											
38B. Isophorone (78-59-1)			X											
39B. Naphthalene (91-20-3)			X											
40B. Nitrobenzene (98-95-3)			X											
41B. N-Nitro-sodiummethyamine (62-75-9)			X											
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X											

EPA Form 3510-2C (8-90)

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED (if available)	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS						
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
43B. N-Nitro-sodiphenylamine (86-30-6)			X								
44B. Phenanthrene (85-01-8)			X								
45B. Pyrene (129-00-0)			X								
46B. 1,2,4-Trichlorobenzene (120-82-1)			X								
GC/MS FRACTION - PESTICIDES											
1P. Aldrin (309-00-2)			X								
2P. α-BHC (319-84-6)			X								
3P. β-BHC (319-85-7)			X								
4P. γ-BHC (58-99-9)			X								
5P. δ-BHC (319-86-8)			X								
6P. Chlordane (57-74-9)			X								
7P. 4,4'-DDT (50-29-3)			X								
8P. 4,4'-DDE (72-55-9)			X								
9P. 4,4'-DDD (72-54-8)			X								
10P. Dieldrin (60-57-1)			X								
11P. α-Ersoulfan (115-29-7)			X								
12P. β-Ersoulfan (115-29-7)			X								
13P. Ersoulfan Sulfate (1031-07-8)			X								
14P. Endrin (72-20-8)			X								
15P. Endrin Aldehyde (7421-93-4)			X								
16P. Heptachlor (76-44-8)			X								

EPA I.D. NUMBER (copy from Item 1 of Form 1)
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OUTFALL NUMBER
 003

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS		
				(1) CONCENTRATION	(2) MASS						(1) CONCENTRATION
GC/MS FRACTION - PESTICIDES (continued)											
17P. Heptachlor Epoxide (1024-57-3)			X								
18P. PCB-1242 (53469-21-9)			X								
19P. PCB-1254 (11097-69-1)			X								
20P. PCB-1221 (11104-28-2)			X								
21P. PCB-1232 (11144-16-5)			X								
22P. PCB-1248 (12672-29-6)			X								
23P. PCB-1260 (11096-62-5)			X								
24P. PCB-1016 (12674-11-2)			X								
25P. Toxaphene (8001-35-2)			X								

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
VAR0005188316

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
004

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)				4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
a. Biochemical Oxygen Demand (BOD)	< 2.0						1	mg/L				
b. Chemical Oxygen Demand (COD)	< 20						1	mg/L				
c. Total Organic Carbon (TOC)	< 1.0						1	mg/L				
d. Total Suspended Solids (TSS)	< 4.0						1	mg/L				
e. Ammonia (as N)	0.46						1	mg/L				
f. Flow	VALUE 0.220		VALUE 0.200		VALUE 0.187		365	NA	MGD			
g. Temperature (winter)	VALUE 21		VALUE 21		VALUE 17.7		4	°C				
h. Temperature (summer)	VALUE 20.5		VALUE 20.5		VALUE 17.7		4	°C				
i. pH	MINIMUM 6.99	MAXIMUM 7.87	MINIMUM 6.99	MAXIMUM 7.87			8	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'				3. EFFLUENT				4. UNITS				5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS								
a. Bromide (24959-67-9)	X															
b. Chlorine, Total Residual	X		0.09						1	mg/L		See notes				
c. Color	X															
d. Fecal Coliform	X															
e. Fluoride (16984-48-8)	X		0.13						1	mg/L		See notes				
f. Nitrate-Nitrite (as N)	X		1.5						1	mg/L		See notes				

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ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS		5. INTAKE (optional)					
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	c. LONG TERM AVRG. VALUE (if available)				
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS			
B. Nitrogen Total Organic (as N)		X												
h. Oil and Grease	X		4.2											
i. Phosphorus (as P), Total (7723-14-0)	X		0.10											
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO ₄) (14808-79-8)	X		180											
l. Sulfide (as S)		X												
m. Sulfite (as SO ₃) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

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CONTINUED FROM PAGE 3 OF FORM 2-C

EPA I.D. NUMBER (copy from Item 1) **VAR0005188316**
 OUTFALL NUMBER **004**

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4, 6-dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (of 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT		4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
				(1) CONCENTRATION	(2) MASS			
METALS, CYANIDE, AND TOTAL PHENOLS								
1M. Antimony, Total (7440-36-0)			X					
2M. Arsenic, Total (7440-38-2)		X		2.4		1	ug/L	
3M. Beryllium, Total (7440-41-7)		X						
4M. Cadmium, Total (7440-43-8)		X						
5M. Chromium, Total (7440-47-3)		X						
6M. Copper, Total (7440-50-8)		X		0.46		1	ug/L	
7M. Lead, Total (7439-92-1)		X		0.71		1	ug/L	
8M. Mercury, Total (7439-97-6)		X		0.084				
9M. Nickel, Total (7440-02-0)		X		0.43		1	ug/L	
10M. Selenium, Total (7782-49-2)		X		4.1		2	ug/L	
11M. Silver, Total (7440-22-4)			X					
12M. Thallium, Total (7440-28-0)			X					
13M. Zinc, Total (7440-66-6)		X		65.0		1	ug/L	
14M. Cyanide, Total (57-12-5)			X					
15M. Phenols, Total			X					
DIOXIN								
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1784-01-6)			X					

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DESCRIBE RESULTS

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1. POLLUTANT AND CAS NUMBER <i>(if available)</i>	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE <i>(optional)</i>		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GCMS FRACTION - VOLATILE COMPOUNDS											
1V. Acrolein (107-02-8)			X								
2V. Acrylonitrile (107-13-1)			X								
3V. Benzene (71-43-2)			X								
4V. Bis (Chloromethyl) Ether (542-88-1)			X								
5V. Bromoform (75-25-2)			X								
6V. Carbon Tetrachloride (56-23-5)			X								
7V. Chlorobenzene (108-90-7)			X								
8V. Chlorodibromomethane (124-48-1)			X								
9V. Chloroethane (75-00-3)			X								
10V. 2-Chloroethylvinyl Ether (110-75-8)			X								
11V. Chloroform (67-66-3)			X								
12V. Dichlorobromomethane (75-27-4)			X								
13V. Dichlorodifluoromethane (75-71-8)			X								
14V. 1,1-Dichloroethane (75-34-3)			X								
15V. 1,2-Dichloroethane (107-06-2)			X								
16V. 1,1-Dichloroethylene (75-35-4)			X								
17V. 1,2-Dichloropropane (78-87-5)			X								
18V. 1,3-Dichloropropene (842-75-6)			X								
19V. Ethylbenzene (100-41-4)			X								
20V. Methyl Bromide (74-83-9)			X								
21V. Methyl Chloride (74-87-3)			X								

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CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)												
22V. Methylene Chloride (75-09-2)			X									
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X									
24V. Tetrachloroethylene (127-18-4)	X			<0.58	<0.41			<0.58	<0.41	22	ug/L	g/day
25V. Toluene (108-88-3)			X									
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<0.38	<0.27			<0.38	<0.27	22	ug/L	g/day
27V. 1,1,1-Trichloroethane (71-95-6)	X			<0.42	<0.30			<0.42	<0.30	22	ug/L	g/day
28V. 1,1,2-Trichloroethane (79-00-5)			X									
29V. Trichloroethylene (79-01-6)	X			<0.45	<0.32			<0.45	<0.32	22	ug/L	g/day
30V. Trichlorofluoromethane (75-69-4)			X									
31V. Vinyl Chloride (75-01-4)			X									
GC/MS FRACTION - ACID COMPOUNDS												
1A. 2-Chlorophenol (95-57-8)			X									
2A. 2,4-Dichlorophenol (120-83-2)			X									
3A. 2,4-Dimethylphenol (105-67-9)			X									
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X									
5A. 2,4-Dinitrophenol (51-28-5)			X									
6A. 2-Nitrophenol (88-75-5)			X									
7A. 4-Nitrophenol (100-02-7)			X									
8A. P-Chloro-M-Cresol (58-50-7)			X									
9A. Pentachlorophenol (87-86-5)			X									
10A. Phenol (108-95-2)			X									
11A. 2,4,6-Trichlorophenol (88-05-2)			X									

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
	(if available)			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS												
1B. Acenaphthene (83-32-9)			X									
2B. Acenaphthylene (208-96-6)			X									
3B. Anthracene (120-12-7)			X									
4B. Benzidine (92-87-5)			X									
5B. Benzo (a) Anthracene (56-55-3)			X									
6B. Benzo (a) Pyrene (50-32-8)			X									
7B. 3,4-Benzofluoranthene (205-98-2)			X									
8B. Benzo (ghi) Perylene (181-24-2)			X									
9B. Benzo (k) Fluoranthene (207-08-9)			X									
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X									
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X									
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X									
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)		X						6.7			2	ug/L
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X									
15B. Butyl Benzyl Phthalate (85-68-7)			X									
16B. 2-Chloronaphthalene (91-58-7)			X									
17B. 4-Chlorophenyl Phenyl Ether (7006-72-3)			X									
18B. Chrysene (218-01-9)			X									
19B. Dibenzo (a,h) Anthracene (53-70-3)			X									
20B. 1,2-Dichlorobenzene (95-50-1)			X									
21B. 1,3-Dichlorobenzene (941-73-1)			X									

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE		d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)												
22B. 1,4-Dichlorobenzene (106-46-7)			X									
23B. 3,3-Dichlorobenzidine (91-94-1)			X									
24B. Diethyl Phthalate (84-66-2)			X									
25B. Dimethyl Phthalate (131-11-3)			X									
26B. Di-N-Butyl Phthalate (84-74-2)			X									
27B. 2,4-Dinitrotoluene (121-14-2)			X									
28B. 2,6-Dinitrotoluene (606-20-2)			X									
29B. Di-N-Octyl Phthalate (117-84-0)			X									
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-96-7)			X									
31B. Fluoranthene (208-44-0)			X									
32B. Fluorene (96-73-7)			X									
33B. Hexachlorobenzene (118-74-1)			X									
34B. Hexachlorobutadiene (67-68-3)			X									
35B. Hexachlorocyclopentadiene (77-47-4)			X									
36B. Hexachloroethane (67-72-1)			X									
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X									
38B. Isophorone (78-59-1)			X									
39B. Naphthalene (91-20-3)			X									
40B. Nitrobenzene (98-95-3)			X									
41B. N-Nitrosodimethylamine (62-75-9)			X									
42B. N-Nitrosod-N-Propylamine (621-64-7)			X									

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE	d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
43B. N-Nitrosodiphenylamine (86-30-6)			X								
44B. Phenanthrene (85-01-8)			X								
45B. Pyrene (129-00-0)			X								
46B. 1,2,4-Trichlorobenzene (120-82-1)			X								
GC/MS FRACTION - PESTICIDES											
1P. Aldrin (309-00-2)			X								
2P. α-BHC (319-84-6)			X								
3P. β-BHC (319-85-7)			X								
4P. γ-BHC (58-99-9)			X								
5P. δ-BHC (319-86-8)			X								
6P. Chlordane (57-74-9)			X								
7P. 4,4'-DDT (50-29-3)			X								
8P. 4,4'-DDE (72-55-9)			X								
9P. 4,4'-DDD (72-54-8)			X								
10P. Dieldrin (60-57-1)			X								
11P. α-Endosulfan (115-29-7)			X								
12P. β-Endosulfan (115-29-7)			X								
13P. Endosulfan Sulfate (1031-07-8)			X								
14P. Endrin (72-20-8)			X								
15P. Endrin Aldehyde (7421-83-4)			X								
16P. Heptachlor (75-44-8)		X				0.041			4	ug/L	See notes

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EPA ID. NUMBER (copy from Item 1 of Form 1)
 VAR0005188316

OUTFALL NUMBER
 004

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT		4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (1) CONCENTRATION	a. CONCENTRATION	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. NO. OF ANALYSES	
GC/MS FRACTION - PESTICIDES (continued)										
17P. Heptachlor Epoxide (1024-57-3)			X							
18P. PCB-1242 (53469-21-9)			X							
19P. PCB-1254 (11097-69-1)			X							
20P. PCB-1221 (11104-28-2)			X							
21P. PCB-1232 (11141-16-5)			X							
22P. PCB-1248 (12672-29-6)			X							
23P. PCB-1260 (11096-82-5)			X							
24P. PCB-1016 (12674-11-2)			X							
25P. Toxaphene (8001-35-2)			X							

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VPDES Permit Application Addendum

Permit No. VA0085901

1. Entity to whom the permit is to be issued IBM Corporation
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. Is this facility located within city or town boundaries? Y / N
Outfalls 001, 002, and 003 are located in City of Manassas. Outfall 004 is located in

3. Provide the tax map parcel number for the land where the discharge is located. Prince William County.
See attached notes

4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
None

5. What is the design average effluent flow of this facility? _____ MGD
For industrial facilities, provide the max. 30-day average production level, include units:
See attached notes

In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y/N

If "Yes", please identify the other flow tiers (in MGD) or production levels: _____
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?

6. Nature of operations generating wastewater:
Groundwater remediation

0 % of flow from domestic connections/sources
Number of private residences to be served by the treatment works:

100 % of flow from non-domestic connections/sources

7. Mode of discharge: Continuous Intermittent Seasonal
Describe frequency and duration of intermittent or seasonal discharges:

8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:

- Permanent stream, never dry
- Intermittent stream, usually flowing, sometimes dry Outfall 004
- Ephemeral stream, wet-weather flow, often dry Outfalls 001, 002, and 003
- Effluent-dependent stream, usually or always dry without effluent flow
- Lake or pond at or below the discharge point
- Other: _____

9. Approval Date(s):
O & M Manual April 2007 Sludge/Solids Management Plan Not Applicable
Revision submitted Nov 2007

Have there been any changes in your operations or procedures since the above approval dates? Y N

VPDES Permit Application Addendum Notes

**VPDES Permit No. VA0085901
IBM Corporation
Manassas, VA**

Item 3. Provide the tax map parcel number for the land where the discharge is located:

Outfall	Municipality	Tax Map Parcel
001	City of Manassas	102-01-00-7
002	City of Manassas	102-01-00-23F
003	City of Manassas	112-34A-00-E
004	Prince William County	7796-01-00-7

Item 5. What is the design average flow of this facility?

Outfall	Design Flow MGD)
001	0.252
002	0.252
003	0.252
004	0.504